

Appln. No. 09/840,193
Amendment dated February 13, 2006
Reply to Office Action of November 23, 2005

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Amendments to the Claims:

Please amend claim 33 and add new claim 35 as follows. The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Cancelled).

Claim 2 (Previously Presented). The radiation image processing apparatus according to Claim 33, wherein the contour recognizing section judges the kind of recognized contour based on a position change of a boundary of the object region.

Claim 3 (Previously Presented). The radiation image processing apparatus according to Claim 2, wherein the contour recognizing section comprises:

5 a region boundary point detecting section that detects a boundary of the object region,

a position change amount calculating section that calculates a position change amount of the boundary of the object region

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from plural region boundary points detected by the region
boundary point detecting section, and

- 10 a contour specifying section that specifies the kind of
recognized contour from the position change amount calculated by
the position change amount calculating section.

Claim 4 (Original). The radiation image processing
apparatus according to Claim 3, wherein the position change
amount is a distance between neighboring region boundary points.

- Claim 5 (Previously Presented). The radiation image
processing apparatus according to Claim 3, wherein the position
change amount is an amount of change in coordinates between
neighboring region boundary points in one or both of the
5 horizontal and vertical directions.

Claim 6 (Previously Presented). The radiation image
processing apparatus according to Claim 33, wherein the contour
recognizing section judges the kind of recognized contour based
on local region widths of the object region.

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Claim 7 (Previously Presented). The radiation image processing apparatus according to Claim 6, wherein the contour recognizing section comprises:

5 a region boundary point detecting section which detects a boundary of the object region,

a region width calculating section which calculates local region widths of the object region from plural region boundary points detected by the region boundary point detecting section, and

10 a contour specifying section which specifies the kind of recognized contour from the region widths calculated by the region width calculating section.

Claim 8 (Previously Presented). The radiation image processing apparatus according to claim 33, wherein the body part of the object is recognized by using the feature amount obtained in the contour recognizing section.

Claim 9 (Currently Amended). The radiation image processing apparatus according to Claim 33, further comprising a radiographing orientation judging section which judges a

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radiographing orientation for the object from the contour based
5 on the feature amount.

Claims 10-32 (Cancelled).

Claim 33 (Currently Amended). A radiation image processing
apparatus which identifies a contour of a radiographed body part
and determines which one of a plurality of predetermined-
different ~~different~~ contour types corresponding to a plurality of
5 different kinds of body parts such as a chest, an abdomen and a
leg the radiographed body part belongs, the apparatus comprising:
an object region extracting section that receives a set of
two-dimensionally-arranged radiation image data including
radiation image data of the radiographed body part and extracts
10 an object region formed by the radiation image data of the
radiographed body part from the set of two-dimensionally-arranged
radiation image data; and

a contour recognizing section having contour type
classification criteria data for each of the plurality of
15 predetermined-different ~~different~~ contour types corresponding to
the plurality of different kinds of body parts, which recognizes
a contour of the extracted object region, and determines to which

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one of the plurality of different contour types the recognized
contour belongs based on the data of contour type classification
20 criteria [[data]].

Claim 34 (Previously Presented). The radiation image
processing apparatus of claim 33, wherein the contour recognizing
section provides a feature amount to the recognized contour in
accordance with the determined one of the plurality of different
5 contour types.

Claim 35 (New). The radiation image processing apparatus of
claim 33, wherein the plurality of predetermined-different
contour types includes a square type, a rectangular type and a
barrel type.